
National Capital Region Medical Update

to
The Defense Health Board

by
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Agenda



- NCR Medical Background
- NCR Medical BRAC Base Realignment and Closure
 - Bethesda Construction and Outfitting
 - Fort Belvoir Construction and Outfitting
 - Transition Schedule
- Comprehensive Master Plan
- Other Items of DHB Interest
- Conclusion



NCR Medical Background



- **NOV 05**: BRAC Directs transition of Walter Reed to new locations
 - Walter Reed National Military Medical Center (WRNMMC) at Bethesda, MD
 - Fort Belvoir Community Hospital (FBCH) at Fort Belvoir, VA
- **FEB 07**: WashPost Article re: Walter Reed Bldg 18 conditions
- **SEP 07**: JTF CapMed established reporting to DEPSECDEF (DSD)
 - Oversee execution of Walter Reed BRAC recommendation
 - Manage NCR to provide more effective and efficient world-class healthcare
- **JAN 09**: DoD Memo
 - Continues JTF CapMed as joint command, establishing WRNMMC and FBCH as subordinate joint commands
 - Reaffirms DoD civilian manning model for NCR hospitals



NCR Medical Background (Cont.)



- **JUL 09**: Defense Health Board (DHB) Review of “World-Class”
 - Developed definition of “World-Class Medical Facility”
 - Stated plans for FBCH were world-class, but identified deficiencies at WRNMMC
 - Stated single point of NCR organizational/budgetary authority was “foundational”
- **OCT 09**: FY10 NDAA requires Comprehensive Master Plan (CMP)
 - Law Codified DHB definition of “World-Class Medical Facility”
- **APR/AUG 10**: DSD provides CMP/Supplement CMP to Congress
 - ~800M in post-BRAC facility improvements to achieve world-class at Bethesda
 - Provides JTF CapMed with organizational and fiduciary authorities to manage NCR
 - Directs JTF CapMed to develop NCR Integrated Healthcare Delivery System
- **FEB 11**: PRESBUD 2012 Request includes CMP funding
 - \$109M in 2012 budget (\$762M from FY12-FY16) for projects at Bethesda



NCR Medical BRAC

Construction & Equipment Outfitting Progress

BETHESDA

- Construction: ~1.52M SQFT (84%) of ~1.81M SQFT complete
 - New Outpatient and Inpatient pavilions are LEED Gold
- Equipment (hospital spaces): ~31,800 of ~41,000 items outfitted

FORT BELVOIR

- Construction: ~1.4M SQFT (93%) of ~1.52M SQFT complete
- Equipment (hospital spaces): ~65,000 of ~93,000 items outfitted



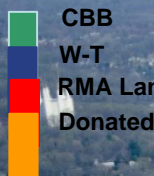
...BRAC consolidates four inpatient hospitals (run by three Services) into two inpatient hospitals

BRAC Construction and Outfitting on track to support transition by 15 SEP



Bethesda

BRAC Construction Projects



CBB
W-T
RMA Land Construction
Donated

Building 62:
Barracks/Dining/Admin ; 295K sqft
ECD: Jul 2011

Building 17: Consolidated Complex Admin/Fitness
Facility/Parking Garage; 415K sqft
ECD: Aug 2011

Multi-Use Parking Structure
1200 spaces
ECD: Aug 2011

Traffic Mitigation Gate #5
ECD: Aug 2011

Traffic Mitigation Gate #4
ECD: Jun 2012

Fisher Houses
60 Units in 3 Houses
BOD: Nov 2010

Traffic Mitigation Gate #3
ECD: Dec 2012

Patient Parking Garage
944 spaces; 335K sqft;
BOD: Feb 2010

Hospital Renovations
390K sqft
ECD: Jul 2011

National Intrepid Center of Excellence
2 floors; 72K sqft
BOD: Jun 2010

Bldg A: Outpatient
6 floors; 515K sqft
BOD: Aug 2010

Bldg B: Inpatient
4 floors; 162K sqft
BOD: Sep 2010

Traffic Mitigation Gate #2
ECD: Sep 2011

Traffic Mitigation Gate #1 and Pass/ID office
ECD: Jul 2011



Walter Reed National Military Medical Center (WRNMMC)



New WRNMMC Capabilities

- Vision Centers of Excellence
- National Intrepid Center of Excellence
- Level I Trauma Care
- Consolidated Cancer Center
- Gynecological Oncology
- Prostate Oncology
- Breast Cancer
- Medical Oncology
- Surgical Oncology
- Comprehensive Warrior Transition Support Services
- Joint Pathology Center

Space: ~2M SQFT
Staff: ~6000
Total Beds: 345
ICU Beds: 50
Operating Rooms: 20



WRNMMC Construction and Outfitting *America (outpatient pavilion)*



Prosthetics Lab



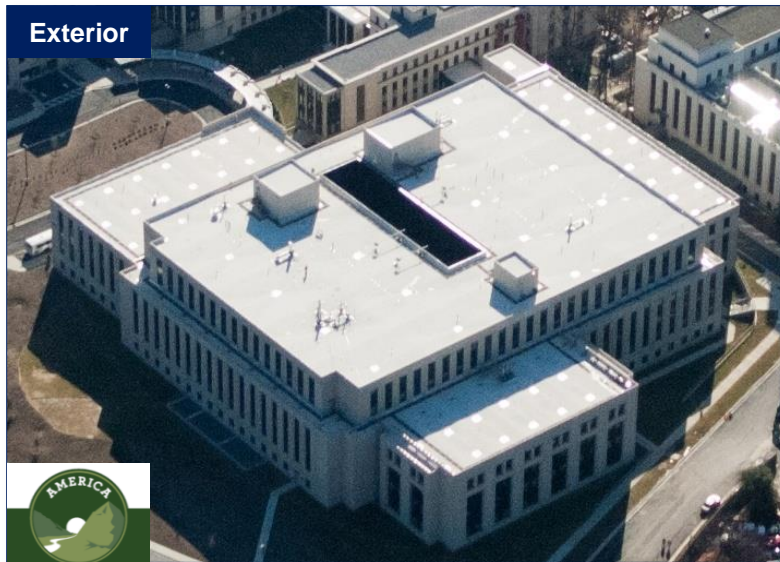
CAREN Virtual Reality Rehab



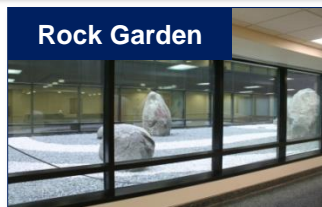
Oncology



Exterior



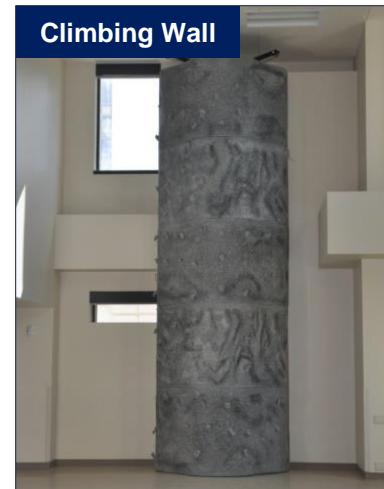
Rock Garden



Indoor Track



Climbing Wall



Indoor Rehab Pool



Radiology



CONSTRUCTION: Complete
EQUIPMENT: 18,424 of 18,457 items outfitted
SPACE: 515,000 SQFT
LEED STANDARD: Gold
NOTES: Providing patient care. Largest outpatient clinic in the Military Health System



WRNMMC Construction and Outfitting *Arrowhead (inpatient pavilion)*



Nurse Duty Station



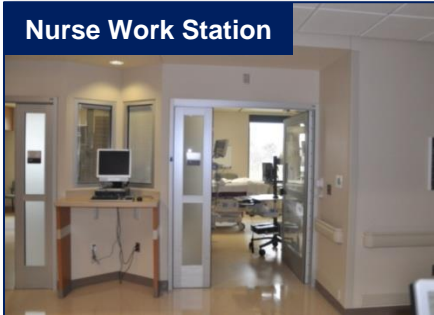
Exterior



Intensive Care Unit



Nurse Work Station



Catheterization Lab



Trauma Suite



Critical Care



CONSTRUCTION: Complete

EQUIPMENT: 5,850 of 5,853 items outfitted

SPACE: 160,000 SQFT

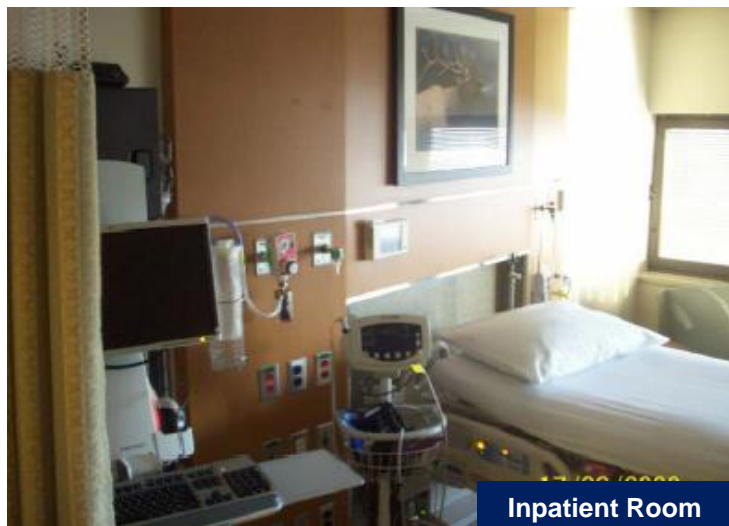
LEED STANDARD: Gold

NOTES: Providing patient care



WRNMMC Construction and Outfitting

Hospital Renovations Necessary for BRAC



Inpatient Room



Clinical Space

Pediatric Intensive Care Unit



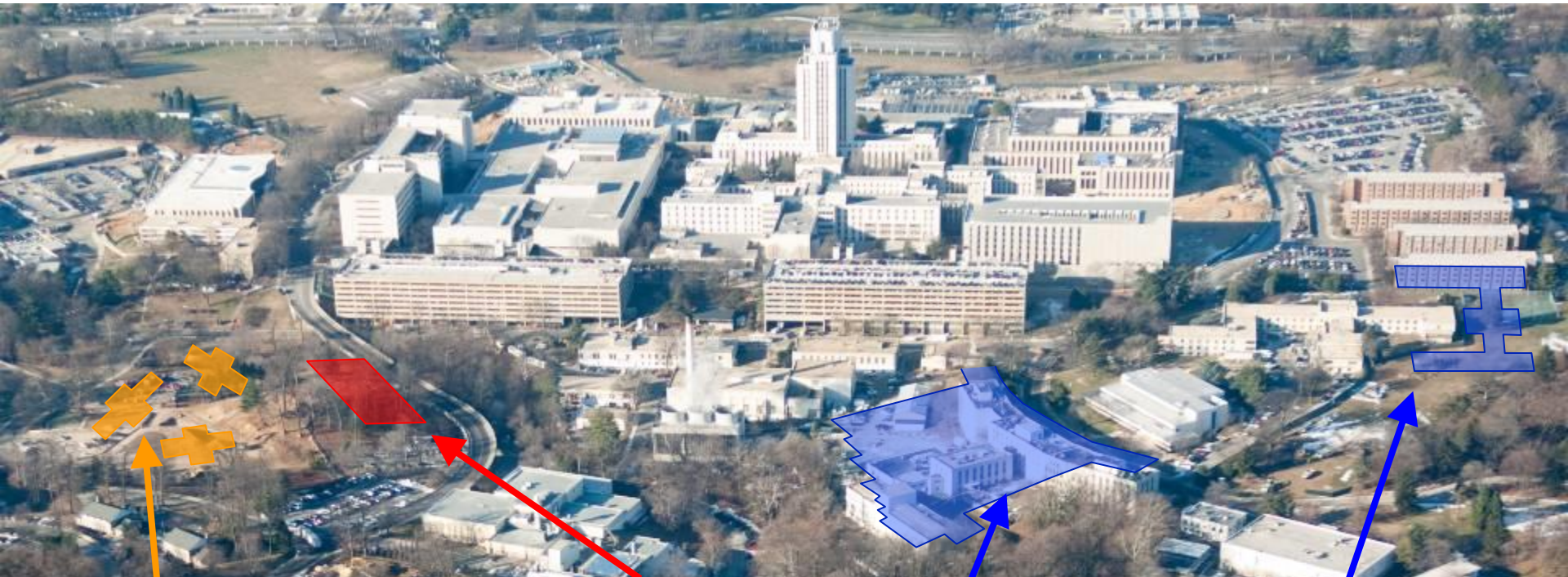
CONSTRUCTION: 79% complete
EQUIPMENT: 7,490 of 16,785 Items
Outfitted (Complete 15 AUG)
SPACE: 340,000 SQFT
NOTES: Inpatient beds to be
completed ahead of schedule



Neurosurgery Space



Bethesda Support Facility Construction



Three Fisher Houses



Multi-Use Parking Structure
10 floors; 1200 spaces;
ECD: Aug 2011



Building 17: Consolidated Complex
4 floors; 415K sqft; ECD: August 2011



Building 62: Barracks/Dining/Admin
8 floors; 295K sqft; ECD: June 2011





WRNMMC Construction and Outfitting

Admin, Fitness Center, Parking Complex



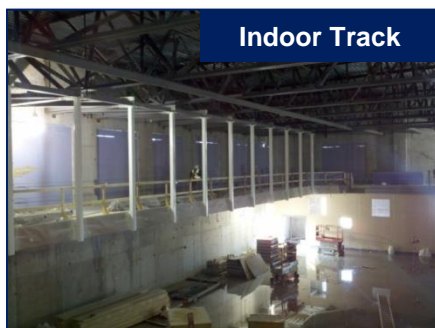
Exterior (Back)



Exterior (Front)



Pool



Indoor Track



Office Area



Corridor

CONSTRUCTION: 82% complete

EQUIPMENT: Outfitting complete by 24 AUG

SPACE: 502,000 SQFT

LEED STANDARD: Silver

NOTES: ~576 Parking spaces. Fitness Center sized to accommodate space needs of warriors.



WRNMMC Construction and Outfitting

Warrior Transition and Lodging Center



Exterior



Warrior Suite Mock-Up



Galley



Roof Solar Panels

CONSTRUCTION: 92% complete

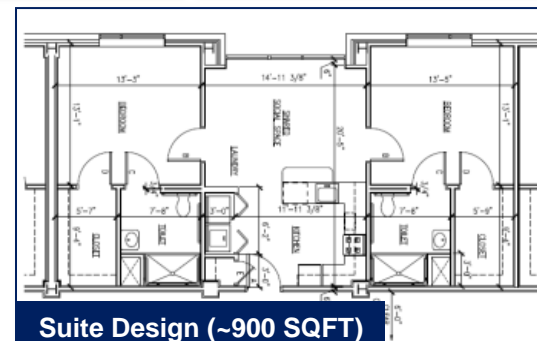
EQUIPMENT: Outfitting complete by 7 JUL

SPACE: 295,000 SQFT

LODGING: 306 Americans with Disabilities Act Compliant Rooms (153 Suites)

LEED STANDARD: Silver

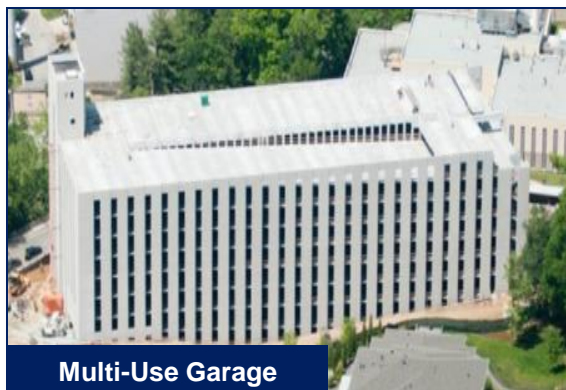
NOTES: Dedicated galley, warrior support services on-site (center building), close proximity to Warrior Clinic and Fitness Center





Bethesda Construction and Outfitting

Parking and Gate Renovations



Multi-Use Garage

CONSTRUCTION: 75% complete
(done by 31 AUG)

PARKING: ~1200 Spaces



America Patient Garage

CONSTRUCTION: Complete
(in use today)

PARKING: ~945 Spaces



BLDG 17 Garage

CONSTRUCTION: 82% complete
(done by 1 AUG)

PARKING: ~576 Spaces



*Gate 1 Concept



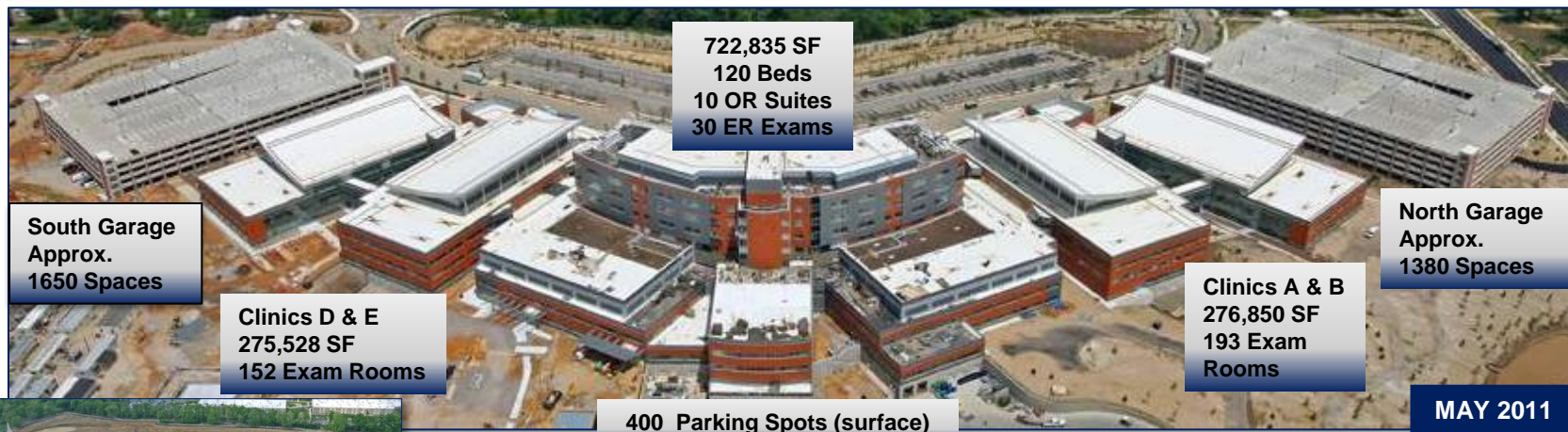
*Gate 1 (29 APR)

CONSTRUCTION: 38% Complete (finished by 31 JUL)

*Gates 1, 2, and 5 to be complete by 15 SEP to support increase in staff and patients



Fort Belvoir Community Hospital (FBCH)



Space: ~1.275M SQFT
Staff: ~3000
Total Beds: 120
ICU Beds: 10
Operating Rooms: 10
Parking: ~3500 Spaces

New FBCH Capabilities

- Adult and Radiation Oncology Services
- ICU
- IP Behavioral Health
- Inpatient Pediatric
- Breast Center
- Nuclear Medicine
- Laser Eye Center
- Oral Surgery
- Chiropractic Services
- Pain Clinic
- Rheumatology
- Comprehensive Warrior Transition Support Services
- Vascular
- Cardiac Catheter Lab
- Neurology
- Endocrinology
- Pulmonary Clinic
- Interventional Radiology





Fort Belvoir Construction and Outfitting

Outpatient Clinics (Buildings A, B, D, E)



Exterior (A & B)



Clinics A and B (River and Eagle)



Clinics E and D (Sunrise and Meadows)



Nurses Station (A)



RECEPTION

Reception Area



Linear Particle Accelerator (D)



Pediatrics (A)



Lobby (A/B)



CONSTRUCTION: Complete

EQUIPMENT: 21,608 of 33,536 items
outfitted (complete 10 AUG)

SPACE: 552,000 SQFT

LEED STANDARD: Silver

Exam Room (E)





Fort Belvoir Construction and Outfitting

Inpatient Pavilion (Building C)



Bird's Eye



Exterior



Exterior



Intensive Care Unit



Corridor



Operating Room



Magnetic Resonance Imaging



Emergency Room



Main Stairs



Inpatient Room



CONSTRUCTION: 89% Complete

EQUIPMENT: 43,409 of 59,284 items
outfitted (complete 10 AUG)

SPACE: 723,000 SQFT

LEED STANDARD: Silver

NOTES: Leading exemplar of Evidence
Based Design in the country



Fort Belvoir Construction and Outfitting

Warrior Transition and Lodging Center



Shower



Bedroom



Kitchen



Hallway

Exterior



Exterior



Exterior



CONSTRUCTION: 86% Complete

EQUIPMENT: Outfitting complete by 1 AUG

SPACE: 240,000 SQFT

LEED STANDARD: Silver

LODGING: 288 Rooms (144 suites)

NOTES: Construction ahead of schedule
and Warrior support services on-site



NCR Medical BRAC *Transition*



- Staff training and relocation
 - Staff mapped to future work locations/positions and begin training on 16 MAY
 - Staff relocations would begin 2 AUG
- Reduce/Stop casualty flow to Walter Reed Army Medical Center
 - Divert NCR Air-Evacs to Bethesda (phased from 29 JUL - 19 AUG)
 - Army casualties already being redistributed
- Clinic relocations
 - Sequenced systematically from 6 AUG – 31 AUG
- Wounded, Ill, and Injured (WII) Service Member relocation
 - Walter Reed Army Medical Center WII move to Belvoir from 12 – 13 AUG and Bethesda on 19 – 21 AUG
- Walter Reed Army Medical Center inpatient relocation
 - Move up to ~150 inpatients in ~8 hours on Sunday, 28 AUG via Ambulances

No decrement to casualty care during transition



Walter Reed Army Medical Center (WRAMC) Inpatient Move



- **WHAT:** Movement of WRAMC Inpatients only to Bethesda, MD
- **WHEN:** Sunday, 28 August 2011 (minimal traffic)
- **HOW MANY:** Planning to relocate up to ~150 inpatients
- **HOW LONG:** ~20 inpatients to be moved an hour
 - Total move to last up to ~8 hours (depending on exact census on day of move)
 - Controlled and stable movement of patients with extra time (if needed)
- **EXECUTION:**
 - Patients will be moved systematically from unit/department in three minute increments
 - Carefully coordinated “move team” (nurses, escorts, loaders, etc) to handle patients
 - An appropriately skilled medical team and accompany them to new ward for “warm” handoff
 - Cadre of Ambulances to transport patients via one of three pre-planned routes
 - Coordination with D.C. and Montgomery County Police

Walter Reed Inpatient move on track to occur on 28 AUG

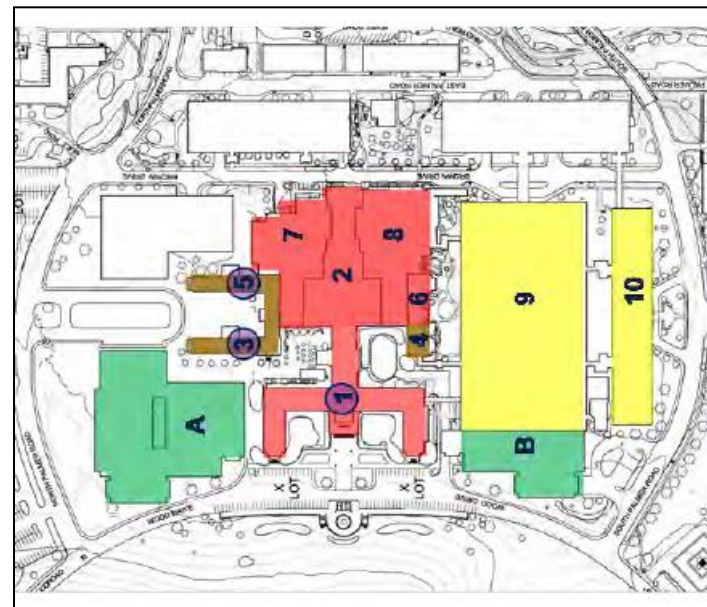


Walter Reed National Military Medical Center Drivers for Change (Post-BRAC)



- New “World Class” definition
 - Requirements of Sec 2714, FY 2010 NDAA
 - Single Patient Rooms
 - Operating Room Support
- Establishing conditions for the future
 - Evolving standards of care
 - New/expanding technology
 - Market forces
- Lack of flexibility
- Old and inefficient infrastructure

*Post-BRAC Facility Condition Index (FCI)



FCI INDEX

	Historical
	Good (100% to 90%)
	Fair (89% to 80%)
	Poor (79% to 60%)
	Failing (59% to 0)

*Per Sept 5, 2007 DUSD(I&E) policy memo “Facility Quality Rating Guidance”, which complies with Federal Real Property Council guidance



Post-BRAC Facility Projects at Bethesda (CMP)



- CMP identified \$829M in facility projects at Bethesda post-BRAC
 - Includes design, temporary facilities, parking garage, outfitting and base infrastructure upgrades
- Constructs ~560K SF, demolishes 325K SF poor/failing condition, renovates 120K SF of clinical space
 - Recapitalize medical space that BRAC did not address
 - Provide additional space required for conversion to single patient rooms, expanding /improving operating suites, rightsizing functional areas, etc.
 - Achieve facility world-class standards required in FY10 NDAA
- Navy has begun National Environmental Protection Act process
- Projects will begin in FY12 and be completed by FY18
 - Funding in President's FY 12 Budget request



CMP Objectives



- Patient Centered Care
 - Medical Home concept
 - Access to care
 - Patient satisfaction
- Wounded Warrior
 - Services and space focused on warriors
- Evidence Based Design
 - Single patient rooms
 - Staff and patient safety
- Staff Performance
 - Optimized through innovative and flexible design concepts
- Staff Satisfaction & Retention
 - Enhances productivity
 - Staff amenities
- Healthy Environments
 - Low VOC environments
 - Fresh air and HEPA filtration
 - Surfaces to reduce backs strains, slips, trips and falls
- Energy Innovative & Efficient
 - LEED/Energy Star
- Codes & Standards
 - Exceeds Joint Commission standards



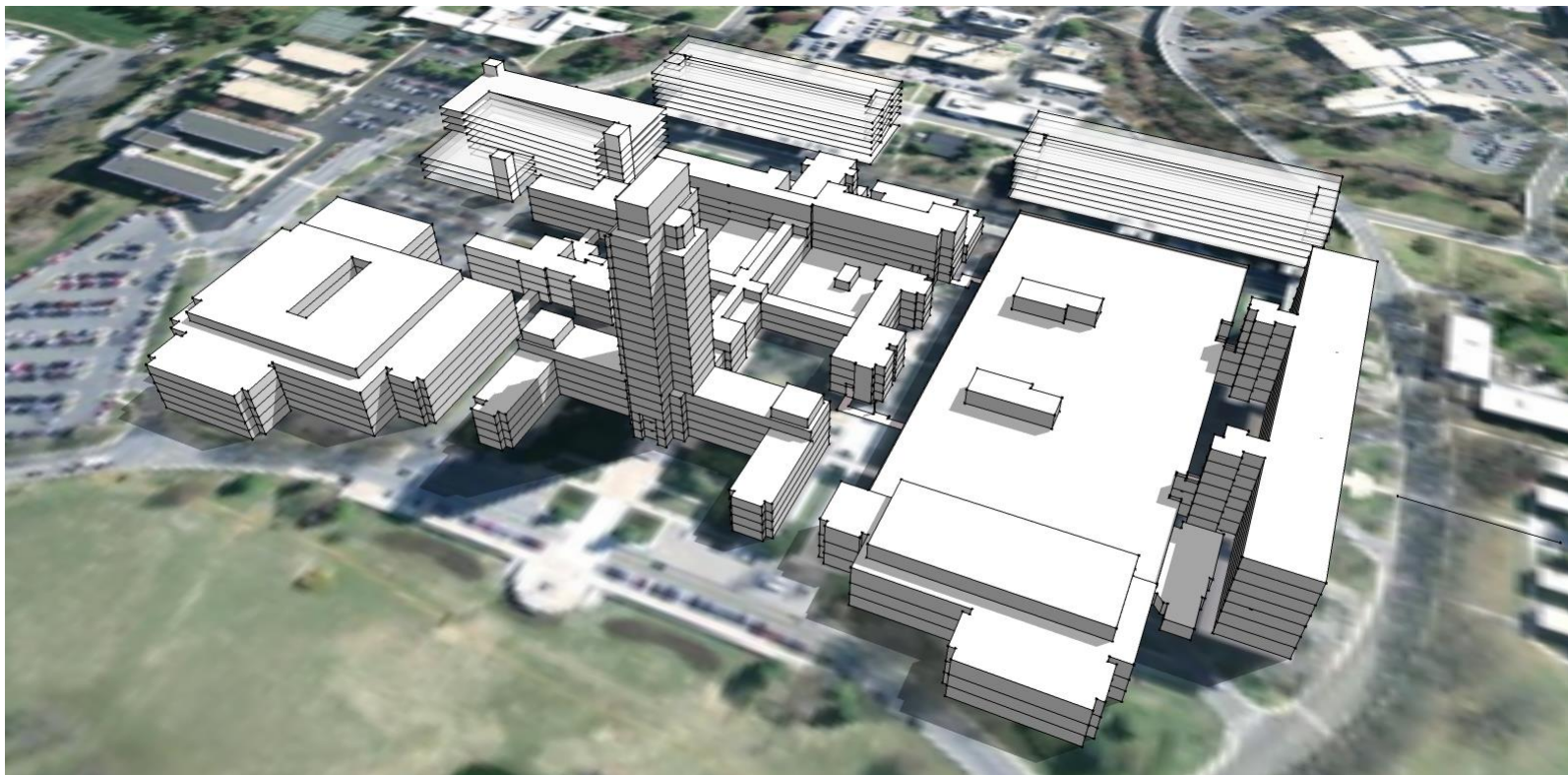
Clinical Project Requirements and Schedule



- **FY 12 – Design Funds**
- **FY 13 – Temporary Facilities/Parking**
- **FY 14 – Demolition/Major Construction Begins**
- **FY 17 – Major Construction Complete**
 - Initial Outfitting
 - Phase II Demolition
 - Renovations Begin
- **FY 18 – Project Complete**

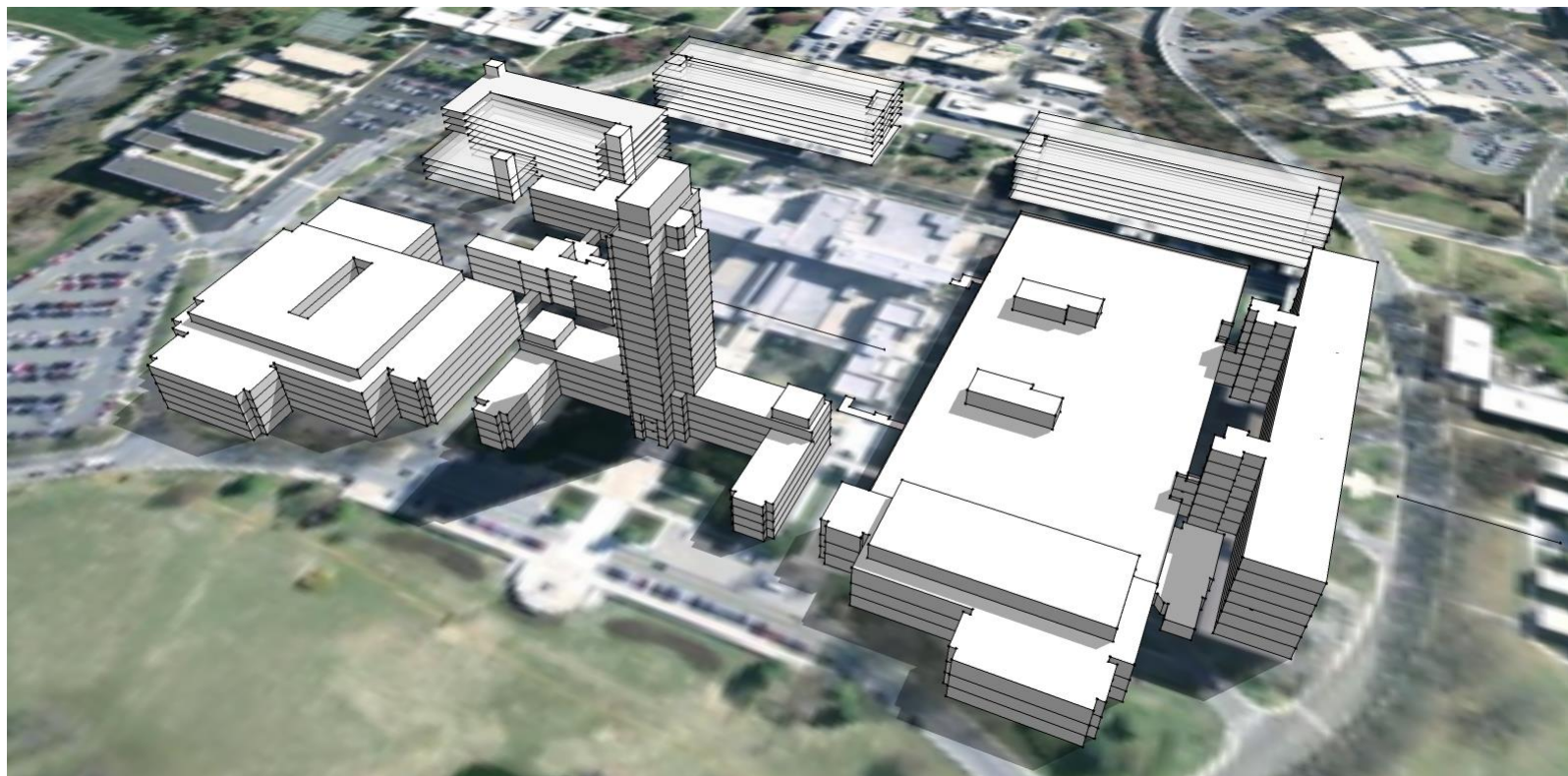


Design Concept - Today



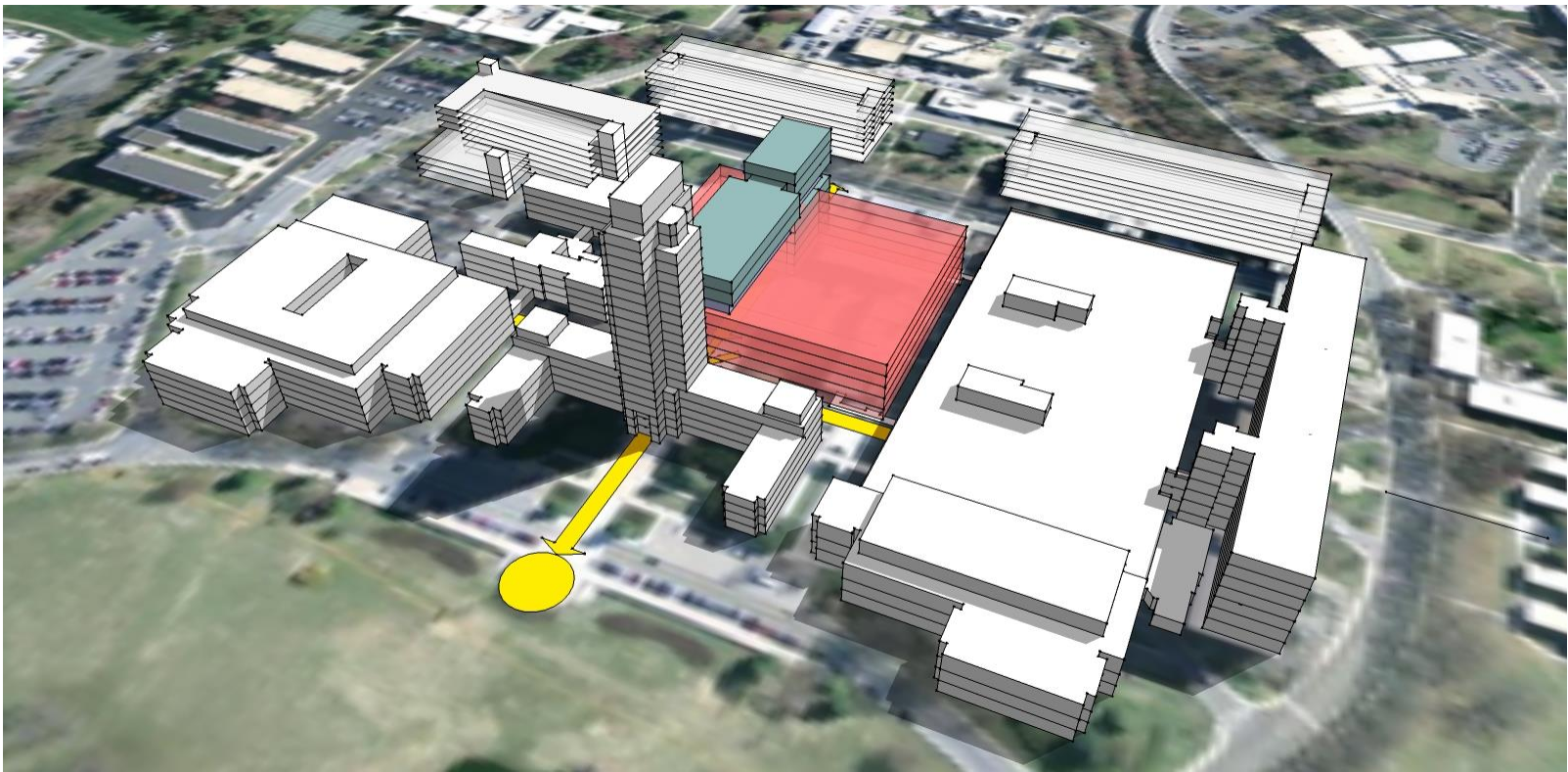


Design Concept - Demolition



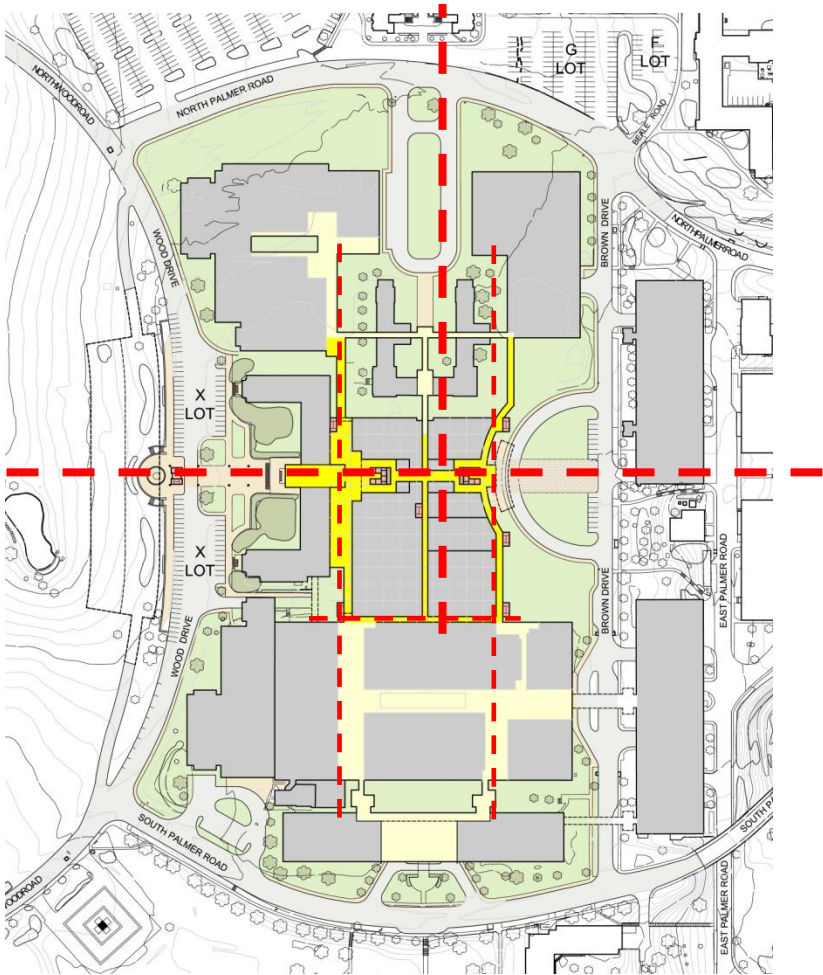
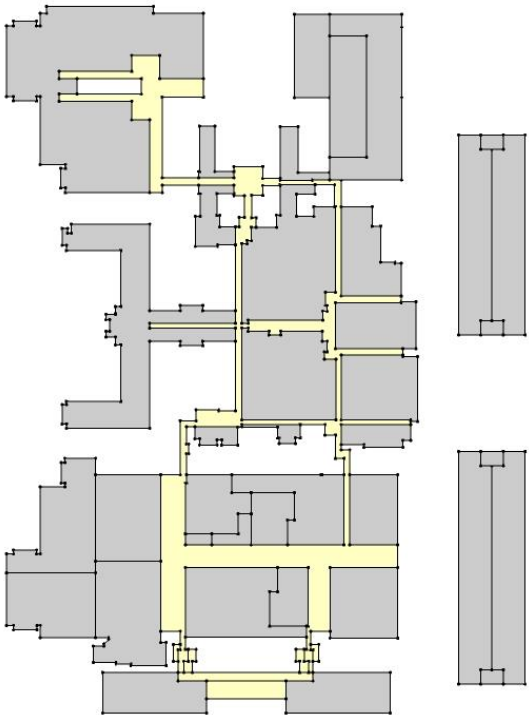


Design Concept - 2018





Design Concept - Circulation





Other Items of DHB Interest

- National Intrepid Center of Excellence
 - Achieved full clinical case load in Feb 2011
- Joint Pathology Center (JPC)
 - 1 Apr, JPC became operational and began its clinical mission (secondary pathology consultation for Fed.Gov., education, research, and management of Tissue Repository)
 - Armed Forces Institute of Pathology (AFIP) will provide support until JPC reaches full operating capability in Sep
- Manning Document Approved for New Hospitals
 - Service Chiefs/JTF CapMed approved manning document for WRNMMC and FBCH
 - Manning document commits the required resources to staff both hospitals
- World-Class Operating Rooms in the NCR
 - Bethesda/Belvoir operating suites will be appropriately sized to support cutting-edge technologies and add capability to support casualty flow and routine surgical care
- Joint Medical Network in the NCR
 - Improve sharing of medical images between NCR hospitals
 - Enhance stability and availability of clinician electronic medical systems
 - Decrease of IT lifecycle costs by consolidating duplicative systems



Conclusion

“BRAC only part of larger transformation”

■ **NCR Medical BRAC**

- Currently on schedule to complete the transition of WRAMC by 15 SEP 2011
- Casualty care and patient safety remain the top priorities as DoD monitors the final milestones necessary to complete the transition
- Notwithstanding DoD’s legal obligation to complete the BRAC by 15 SEP, a timely transition will substantially enhance military and casualty healthcare in the NCR

■ **World-Class Medical Facilities in the NCR**

- DoD is committed to fulfilling requirements of Sec. 2714, FY10 NDAA

■ **Future of NCR Medical (Post-BRAC)**

- JTF CapMed to provide more effective and efficient healthcare through implementation of NCR Integrated Healthcare Delivery System

DoD is committed to world-class healthcare in the NCR